

**Recovery Plan Action Status**

**Plan Name: Recovery Plan for the Kaua'i Plant Cluster**

**Plan Status: Final**

**Plan Date: 20-Sep-95**

**Lead Agency: USFWS**

**Lead Office: Pacific Islands Fish And Wildlife Office**

**(808)  
792-9400 )**

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
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Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iīliau (Wilkesia hobbdi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothoctrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha'iwale (Cyrtrandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	1	111	Identify and map all extant wild populations	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, The Nature Conservancy of Hawaii	Research: Population Surveys	Contract	This is an ongoing action, as the status of the species and their threats change constantly. NOTE: For all tasks in this recovery plan, only the 37 species in the original Kauai plan are being addressed. The other 20 are addressed in the Kauai addendum.

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latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

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latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), `Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										of var. micrantha are within the KWA; Lipochaeta waimeensis is not within a protected area; Lysimachia filifolia is not within a protected area; Melicope haupuensis - all 4 extant populations are within the KWA; Melicope knudsenii - 1 population is within Kuia NAR, all populations are within the KWA; Melicope pallida - the 3 extant populations are within KWA; Melicope quadrangularis - the 1 known population is extirpated, but the area where it was last observed is within the KWA; Munroidendron racemosum - 2 populations are within Hono o Na Pali NAR, all populations are within the KWA; Nothoctrum peltatum - 1 population is in Kuia NAR, all populations are within the KWA; Peucedanum sandwicense - on Kauai, 1 population is within Hono o Na Pali NAR, and all but 1 population are within the KWA, on Oahu and Maui none are in protected areas, on Molokai 1 population is in TNCH's Pelekunu Preserve and 2 are in Kalaupapa National Historical Park; Phyllostegia waimeae - the 1 known population is

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										<p>within the KWA;  <i>Poa mannii</i> - 2 populations are in Kuia NAR, 1 is in Alakai Wilderness Preserve, and all are within the KWA;  <i>Poa sandvicensis</i> - 2 populations are in Alakai Wilderness Preserve and all are within the KWA;  <i>Poa siphonoglossa</i> - 1 population in Kuia NAR, 1 population in Alakai Wilderness Preserve, and all within the KWA;  <i>Pteralyxia kauaiensis</i> - all populations are within the KWA;  <i>Remya kauaiensis</i> - 3 populations are in Kuia NAR, 2 are in Alakai Wilderness Preserve and all are within the KWA;  <i>Remya montgomeryi</i> - 1 population in Kuia NAR, 1 in Alakai Wilderness Preserve and all within the KWA;  <i>Schiedea apokremnos</i> - all within the KWA;  <i>Schiedea spergulina</i> var. <i>leiopoda</i> - none are within protected areas; <i>Schiedea spergulina</i> var. <i>spergulina</i> - all are within the KWA;  <i>Solanum sandwicense</i> - 1 population is in Kuia NAR, all are within the KWA;  <i>Stenogyne campanulata</i> - both populations are within the KWA;  <i>Wilkesia hobbdi</i> - 1 population is in Hono o Na Pali NAR, all are within the KWA;  <i>Xylosma</i></p>

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										crenatum - 2 populations are in Kuia NAR, all are within the KWA.

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latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

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Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iiiau (Wilkesia hobdyi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothocestrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha iwale (Cyrtandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	2	1225	Consider ungulate eradication	Discontinued	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources	Management: Habitat Maintenance and Manipulation	Internal Administrative	This task has been abandoned because the political climate in Hawaii at this time will not support island-wide eradication of nonnative ungulates, which are hunted for food.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st.-johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iiiau (Wilkesia hobbnyi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothoctrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha iwale (Cyrtandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	1	123	Conduct essential alien plant control	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, The Nature Conservancy of Hawaii, U.S. Geological Survey, Biological Resources Division, National Park Service, Kauai Watershed Alliance	Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control	Contract, Internal Field Assistance, Volunteer	Currently, the small fenced areas are weeded, and large scale control of Kahili ginger is occurring throughout the island. Incipient weeds are eradicated by the Kauai Invasive Species Committee and the Kokee Resource Conservation Program controls weeds within the Kokee and Na Pali state parks. Weed control of targeted species is planned by the KWA for the most invasive weed species.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Stenogyne campanulata), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Ma'oli'oli (Schiedea apokremnos), Hawaiian bluegrass (Poa sandwicensis), Kaulu (Pteralyxia kauaiensis), `Aiea (Nothoctrum peltatum), No common name (Remya montgomeryi), Nehe (Lipochaeta fauriei), No common name (Delissea rhytidosperra), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), `Aiakeakua, popolo (Solanum sandwicense), Mann's bluegrass (Poa mannii)	1	124	Provide necessary fire protection	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, The Nature Conservancy of Hawaii, Maui County Department of Fire Control, Kauai County Fire Department, National Park Service	Management: Habitat Maintenance and Manipulation	Contract	Fires are fought when they approach endangered species, but no detailed fire management plans have been developed or implemented for those species occurring in dry habitats.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iiiau (Wilkesia hobdyi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothoctrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha iwale (Cyrtandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	1	1253	Control insects	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, The Nature Conservancy of Hawaii, National Park Service	Management: Predator and Competitor Control	Contract	Effective control methods for most insects in Hawaii are not yet developed for use in natural forest habitats.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iīiau (Wilkesia hobbnyi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothoctrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha iwale (Cyrtandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	1	126	Control disease, if necessary	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, The Nature Conservancy of Hawaii, National Park Service	Management: Disease Control	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	This task has not been started because no disease threat has been detected for any of these species.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iīiau (Wilkesia hobbnyi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothocestrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha'iwale (Cyrtandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia latifolia), Alani (Melicope	1	127	Ensure availability of pollinators if necessary	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, The Nature Conservancy of Hawaii, National Park Service	Management: Habitat Maintenance and Manipulation, Management: Other	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	This task has not been started because little is known about the pollinators of these species.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), `Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iiiau (Wilkesia hobdyi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothoctrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha'iwale (Cyrtandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	1	128	Protect areas from direct threats from humans	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, The Nature Conservancy of Hawaii, National Park Service	Management: Habitat Maintenance and Manipulation	Contract	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iiiau (Wilkesia hobdyi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothocestrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha iwale (Cyrtandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	1	129	Maintain genetic stock ex situ	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, National Tropical Botanical Garden, Botanical Gardens, Hawaii Department of Land and Natural Resources	Management: Propagation	Contract	The existing ex situ collections are not genetically adequate for these species.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iiiau (Wilkesia hobdyi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothoctrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha iwale (Cyrtandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	1	13	Monitor status of wild populations	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, The Nature Conservancy of Hawaii, National Park Service	Research: Population Surveys	Contract	This is an ongoing task, as the status of the species changes constantly, but it does not occur as frequently as it should - annually, and more frequently for genetic safety net species (fewer than 50 individuals in the wild).

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Alani (Melicope quadrangularis), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), No common name (Xylosma crenatum), 'Aiea (Nothocestrum peltatum), Nehe (Lipochaeta micrantha), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia latifolia), Alani (Melicope hauensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa)	2	21	Identify populations for expansion	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division	Management: Reintroduction	Contract	Any population of a short-lived perennial with fewer than 50 mature individuals and a long-lived perennial with fewer than 25 mature individuals that do not exhibit increased reproduction after the major threats are managed is considered for augmentation.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Alani (Melicope quadrangularis), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), No common name (Xylosma crenatum), 'Aiea (Nothocestrum peltatum), Nehe (Lipochaeta micrantha), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia latifolia), Alani (Melicope hauptensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa)	2	22	Identify material to be used for expansion	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division	Management: Reintroduction	Contract	This task is limited based on material available in existing collections.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Alani (Melicope quadrangularis), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), No common name (Xylosma crenatum), `Aiea (Nothoestrum peltatum), Nehe (Lipochaeta micrantha), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), No common name (Chamaesyce halemanui), Na`ena`e (Dubautia latifolia), Alani (Melicope hauensis), `Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa)	2	23	Determine propagation methods and propagate ex situ	Partially Complete	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, National Tropical Botanical Garden, Botanical Gardens, Hawaii Department of Land and Natural Resources	Management: Propagation	Contract	This task is complete for some species, but is more difficult for other species which do not produce viable seeds in the wild and/or cannot be grown from cuttings.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Alani (Melicope quadrangularis), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), No common name (Xylosma crenatum), 'Aiea (Nothocestrum peltatum), Nehe (Lipochaeta micrantha), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia latifolia), Alani (Melicope hauensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa)	2	24	Prepare sites and plant	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Botanical Gardens, Hawaii Department of Land and Natural Resources, The Nature Conservancy of Hawaii, National Park Service	Management: Reintroduction	Contract	Augmentations are occurring for some species in small scale fenced areas by DLNR.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Alani (Melicope quadrangularis), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), No common name (Xylosma crenatum), `Aiea (Nothocestrum peltatum), Nehe (Lipochaeta micrantha), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), No common name (Chamaesyce halemanui), Na`ena`e (Dubautia latifolia), Alani (Melicope hauensis), `Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa)	2	25	Monitor and maintain new individuals	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, The Nature Conservancy of Hawaii, National Park Service	Management: Reintroduction	Contract	This is an ongoing action, as the status of the species and their threats change constantly, and is currently not occurring as frequently as it should - at least once a year.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf ilia (Wilkesia hobbdi), Ma'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), Aiea (Nothoctrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha iwale (Cyrtrandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	2	31	Study associated ecosystem components	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division	Research: Habitat Status	Contract	Critical habitat, and the suitable habitat from which critical habitat was derived, has been identified for all species in this recovery plan. Additional studies are needed to develop more precise microclimate needs for each species.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), `Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iīiau (Wilkesia hobbdi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothoctrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha iwale (Cyrtrandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	2	32	Map alien vegetation	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, The Nature Conservancy of Hawaii, National Park Service	Research: Habitat Status	Contract	This task is being conducted in detail for Kahili ginger and for incipient weeds.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iiiau (Wilkesia hobdyi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothoctrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha iwale (Cyrtrandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	2	33	Study growth	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division	Research: Population Surveys	Contract	The current knowledge has been gathered mainly from incidental observations during propagation, field surveys, and monitoring. More detailed experimental research is needed to fully understand this aspect of these species.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iiiau (Wilkesia hobdyi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothoctrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha iwale (Cyrtandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	2	34	Study reproductive viability	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division	Research: Population Surveys	Contract	The current knowledge has been gathered mainly from incidental observations during propagation, field surveys, and monitoring. More detailed experimental research is needed to fully understand this aspect of these species.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iiiau (Wilkesia hobdyi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothoctrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha iwale (Cyrtandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	2	35	Determine parameters of viable populations	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division	Other: Regulations	Contract	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iiiau (Wilkesia hobbdi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothoctrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha iwale (Cyrtrandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	2	36	Determine threat from introduced organisms and disease	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, Hawaii Department of Agriculture, U.S. Geological Survey, Biological Resources Division	Research: Predation	Contract	This is an ongoing task, as new threats are constantly entering the state and becoming established in natural areas.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iiiau (Wilkesia hobbdi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothoestrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha iwale (Cyrtrandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	2	37	Determine effective control methods for threats	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, Hawaii Department of Agriculture, U.S. Geological Survey, Biological Resources Division, U.S. Animal and Plant Health Inspection Service, Wildlife Services (formerly Animal Damage Control)	Research: Management Techniques	Contract	Control of alien plants is an ongoing task that may be reduced to low maintenance and monitoring levels, but will never be completely eradicated, especially as new pest plant species are continually introduced to Hawaii and can become established in natural areas. Effective control methods are continually being developed by the Invasive Species Committees on each island and the results are applied to other natural areas of similar habitat.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope hauapuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iiiau (Wilkesia hobdyi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothoestrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha'iwale (Cyrtandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	2	38	Evaluate research results and use in future management	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, The Nature Conservancy of Hawaii, U.S. Geological Survey, Biological Resources Division, National Park Service	Management: Reintroduction	Contract	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), Dwarf iliau (Wilkesia hobbdi), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandwicensis), No common name (Xylosma crenatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), No common name (Chamaesyce halemanui), Alani (Melicope haupuensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), No common name (Poa siphonoglossa)	2	41	Identify reestablishment sites	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division	Management: Reintroduction	Internal Administrative	Sites have been selected by DLNR for reintroduction into small scale fenced areas for numerous species.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), Dwarf iliau (Wilkesia hobbdi), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), No common name (Xylosma crenatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), No common name (Delissea rhytidosperra), Awiwi (Hedyotis cookiana), No common name (Chamaesyce halemanui), Alani (Melicope haupuensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), No common name (Poa siphonoglossa)	2	42	Protect reestablishment sites	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, The Nature Conservancy of Hawaii, National Park Service	Management: Habitat Maintenance and Manipulation	Contract	DLNR has constructed and maintains small scale fences around the areas where it is reintroducing species. The Maui GSN program initiated in 2005 will look for reintroduction sites to conduct small-scale management and reintroduction for Melicope knudsenii on Maui.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), Dwarf iliau (Wilkesia hobdyi), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandwicensis), No common name (Xylosma crenatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), No common name (Chamaesyce halemanui), Alani (Melicope haupuensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), No common name (Poa siphonoglossa)	2	43	Identify material for reestablishment	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division	Management: Propagation	Contract	This task is limited based on material available in existing collections.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), Dwarf iliau (Wilkesia hobdyi), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandwicensis), No common name (Xylosma crenatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), No common name (Chamaesyce halemanui), Alani (Melicope haupuensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), No common name (Poa siphonoglossa)	2	44	Determine propagation methods and propagate ex situ	Partially Complete	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, National Tropical Botanical Garden, Botanical Gardens, Hawaii Department of Land and Natural Resources	Management: Propagation	Contract	This task is complete for some species, but is more difficult for other species which do not produce viable seeds in the wild and/or cannot be grown from cuttings.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), Na Pali beach hedyotis (Hedyotis st.-johnii), Alani (Melicope quadrangularis), Dwarf iliau (Wilkesia hobbdi), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandwicensis), No common name (Xylosma crenatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), No common name (Chamaesyce halemanui), Alani (Melicope haupuensis), `Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), No common name (Poa siphonoglossa)	2	45	Prepare sites and plant	Ongoing Not Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, The Nature Conservancy of Hawaii, National Park Service	Management: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Volunteer	Reintroductions are occurring on DLNR lands for Brighamia insignis, Chamaesyce halemanui, Cyanea asarifolia, Delissea rhytidosperma, Dubautia latifolia, Exocarpus luteolus, Hedyotis st.-johnii, Hibiscus clayi, Lipocheata fauriei, Lipochaeta micrantha, Lipochaeta waimeaensis, Munroidendron racemosum, Nothocestrum peltatum, Peucedanum sandwicense, Poa mannii, Poa sandwicensis, Pteralyxia kauaiensis, Remya kauaiensis, Remya montgomeryi, Schiedea apokremnos, Solanum sandwicense, Wilkesia hobbdi, and Xylosma crenatum. However, more reintroductions into larger managed habitat areas are needed to recover most of the species in this plan.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), Dwarf iliau (Wilkesia hobdyi), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandwicensis), No common name (Xylosma crenatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), No common name (Chamaesyce halemanui), Alani (Melicope haupuensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), No common name (Poa siphonoglossa)	2	46	Monitor and maintain new populations.	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, The Nature Conservancy of Hawaii, National Park Service	Management: Habitat Maintenance and Manipulation	Contract	This is an ongoing action, as the status of the species and their threats change constantly, and is currently not occurring as frequently as it should - at least once a year.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iiiau (Wilkesia hobdyi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothocestrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha iwale (Cyrtandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	3	51	Determine number of populations needed for long term survival	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division	Research: Population Surveys	Contract	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iiiau (Wilkesia hobdyi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothoestrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha iwale (Cyrtandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	3	52	Determine number of individuals needed for long term survival	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources, U.S. Geological Survey, Biological Resources Division	Research: Population Surveys	Contract	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
No common name (Phyllostegia knudsenii), No common name (Schiedea membranacea), Nani wai'ale'ale (Viola kauaiensis var. wahiawaensis), No common name (Schiedea spergulina var. leiopoda), Laulihilihi (Schiedea stellarioides), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st.-johnii), Koki'o ke'oke'o (Hibiscus waimeae ssp. hannerae), Koki'o (Kokia kauaiensis), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), No common name (Alsinidendron viscosum), Kolea (Myrsine linearifolia), Dwarf iliau (Wilkesia hobdyi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Mapele (Cyrtandra cyaneoides), Haha (Cyanea remyi), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), Kamakahala (Lobelia tinifolia var. wahiawaensis), 'Aiea (Nothocestrum peltatum), Nehe (Lipochaeta	3	53	Refine/revise downlisting and delisting criteria	Ongoing Not Current	FY 2010		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources	Management: Planning, Other: Regulations, Research: Demographic Studies, Research: Genetics, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Population Surveys, Research: Reintroduction	Internal Technical Assistance, Species Expert	This task has been initiated with the development of the Kauai island-wide recovery plan, which will include revised recovery criteria for all previously listed plant species endemic to Kauai.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
micrantha), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Lo`ulu (Pritchardia napaliensis), No common name (Schiedea kauaiensis), Nehe (Lipochaeta fauriei), No common name (Schiedea helleri), No common name (Diellia pallida), Kuawawaenuhu (Alsinidendron lychnoides), Ha`iwale (Cyrtrandra limahuliensis), No common name (Phyllostegia wawrana), Lo`ulu (Pritchardia viscosa), Hau kuahiwi (Hibiscadelphus woodii), Oha (Delissea rivularis), No common name (Chamaesyce halemanui), Na`ena`e (Dubautia latifolia), Alani (Melicope haupuensis), No common name (Remya kauaiensis), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina), Haha (Cyanea recta)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iiiau (Wilkesia hobdyi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothocestrum peltatum), Nehe (Lipochaeta micrantha), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidisperma), Awiwi (Hedyotis cookiana), Ha'iwale (Cyrtandra limahuliensis), No common name (Chamaesyce	3	53	Refine / Revise downlisting and delisting criteria	Ongoing Current	FY 2010		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources	Management: Planning	Internal Technical Assistance	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
halemanui), Na'ena'e (Dubautia latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), `Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waiimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alani (Melicope knudsenii), No common name (Lysimachia filifolia), No common name (Schiedea spergulina var. leiopoda), No common name (Stenogyne campanulata), Na Pali beach hedyotis (Hedyotis st. - johnii), Alani (Melicope quadrangularis), No common name (Munroidendron racemosum), Heau (Exocarpos luteolus), Dwarf iiiau (Wilkesia hobdyi), Ma'oli'oli (Schiedea apokremnos), Haha (Cyanea asarifolia), Clay's hibiscus (Hibiscus clayi), Hawaiian bluegrass (Poa sandvicensis), Kaulu (Pteralyxia kauaiensis), No common name (Xylosma crenatum), `Aiea (Nothocestrum peltatum), No common name (Remya montgomeryi), No common name (Phyllostegia waimeae), Nehe (Lipochaeta fauriei), No common name (Diellia pallida), Olulu (Brighamia insignis), No common name (Delissea rhytidosperma), Awiwi (Hedyotis cookiana), Ha iwale (Cyrtandra limahuliensis), No common name (Chamaesyce halemanui), Na'ena'e (Dubautia	3	6	Design and implement an education program	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Ecological Services Division, Hawaii Department of Land and Natural Resources	Other: Information and Education	Contract	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
latifolia), Alani (Melicope haupuensis), Alani (Melicope pallida), Makou (Peucedanum sandwicense), No common name (Remya kauaiensis), 'Aiakeakua, popolo (Solanum sandwicense), Nehe (Lipochaeta waimeaensis), Mann's bluegrass (Poa mannii), No common name (Poa siphonoglossa), No common name (Schiedea spergulina var. spergulina)										